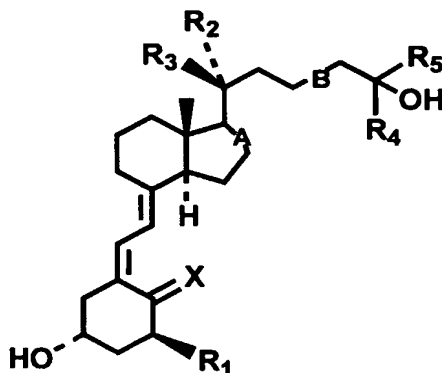


**Claims**

1. Use of a Vitamin D compound in the prevention or treatment of bladder dysfunction.
- 5 2. A method of prevention or treatment of bladder dysfunction in a patient in need thereof by administering an effective amount of a Vitamin D compound thereby to prevent or treat bladder dysfunction in said patient.
3. A method according to claim 2 which further comprises the step of obtaining or synthesising the Vitamin D compound.
- 10 4. A method according to claim 3 wherein the Vitamin D compound is formulated in a pharmaceutical composition together with a pharmaceutically acceptable diluent or carrier.
5. The use of a Vitamin D compound in the manufacture of a medicament for the prevention or treatment of bladder dysfunction.
- 15 6. A Vitamin D compound for use in the prevention or treatment of bladder dysfunction.
7. A kit containing a Vitamin D compound together with instructions directing administration of the Vitamin D compound to a patient in need of prevention or treatment of bladder dysfunction thereby to prevent or treat bladder dysfunction in said  
20 patient.
8. A kit according to claim 7 wherein the Vitamin D compound is formulated in a pharmaceutical composition together with a pharmaceutically acceptable diluent or carrier.
9. The use, method, compound or kit according to any one of claims 1 to 8,  
25 wherein said Vitamin D compound is a Vitamin D receptor agonist.
10. The use, method, compound or kit according to claim 9 wherein said Vitamin D receptor agonist is Vitamin D<sub>3</sub> or an analogue thereof.
11. The use, method, compound or kit according to any one of claims 1 to 10, wherein said bladder dysfunction is characterized by the presence of bladder  
30 hypertrophy.
12. The use, method, compound or kit according to any one of claims 1 to 11, wherein said bladder dysfunction is overactive bladder.

13. The use, method, compound or kit according to any one of claims 1 to 12 in the prevention or treatment of bladder dysfunction in males.
14. The use, method, compound or kit according to claim 13 in the prevention or treatment of bladder dysfunction in males concurrently suffering from BPH.
15. The use, method, compound or kit according to any one of claims 1 to 12 in the prevention or treatment of bladder dysfunction in females.
16. The use, method, compound or kit according to any one of claims 13 to 15, wherein the patient is a human.
17. The use, method, compound or kit according to any one of claims 1 to 16,
- 10 wherein said vitamin D compound is a compound of the formula



wherein

X is H<sub>2</sub> or CH<sub>2</sub>

R<sub>1</sub> is hydrogen, hydroxy or fluorine

15 R<sub>2</sub> is hydrogen or methyl

R<sub>3</sub> is hydrogen or methyl. When R<sub>2</sub> or R<sub>3</sub> is methyl, R<sub>3</sub> or R<sub>2</sub> must be hydrogen.

R<sub>4</sub> is methyl, ethyl or trifluoromethyl

R<sub>5</sub> is methyl, ethyl or trifluoromethyl

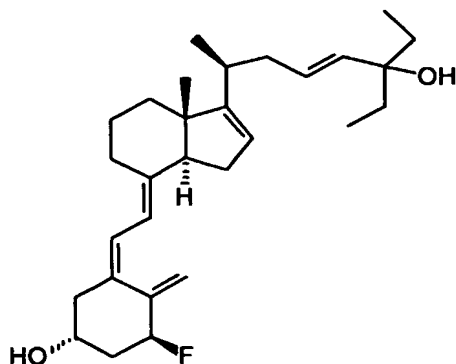
A is a single or double bond

20 B is a single, E-double, Z-double or triple bond

18. The use, method, compound or kit according to claim 17, wherein each of R<sub>4</sub> and R<sub>5</sub> is methyl or ethyl.

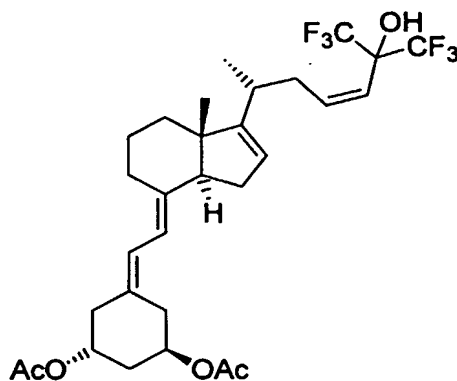
19. The use, method, compound or kit according to claim 18 wherein said compound is 1- $\alpha$ -fluoro-25-hydroxy-16,23E-diene-26,27-bishomo-20-epi-

25 cholecalciferol, having the formula:



20. The use, method, compound or kit according to any one of claims 1 to 16 wherein said compound is 1,25-dihydroxy-16-ene-23-yne cholecalciferol.

21. The use, method, compound or kit according to any one of claims 1 to 16,  
5 wherein said vitamin D compound is 1,3-di-O-acetyl-1,25-dihydroxy-16,23Z-diene-26,27-hexafluoro-19-nor-cholecalciferol, having the formula:



10

22. The use, method or compound or kit according to any one of claims 1 to 16, wherein said vitamin D compound is calcitriol.